

Energy dispersive x-ray spectrometry  
Excitation, 20keV  
Sample, thin  $\text{TiO}_2$  particle film on carbon tape

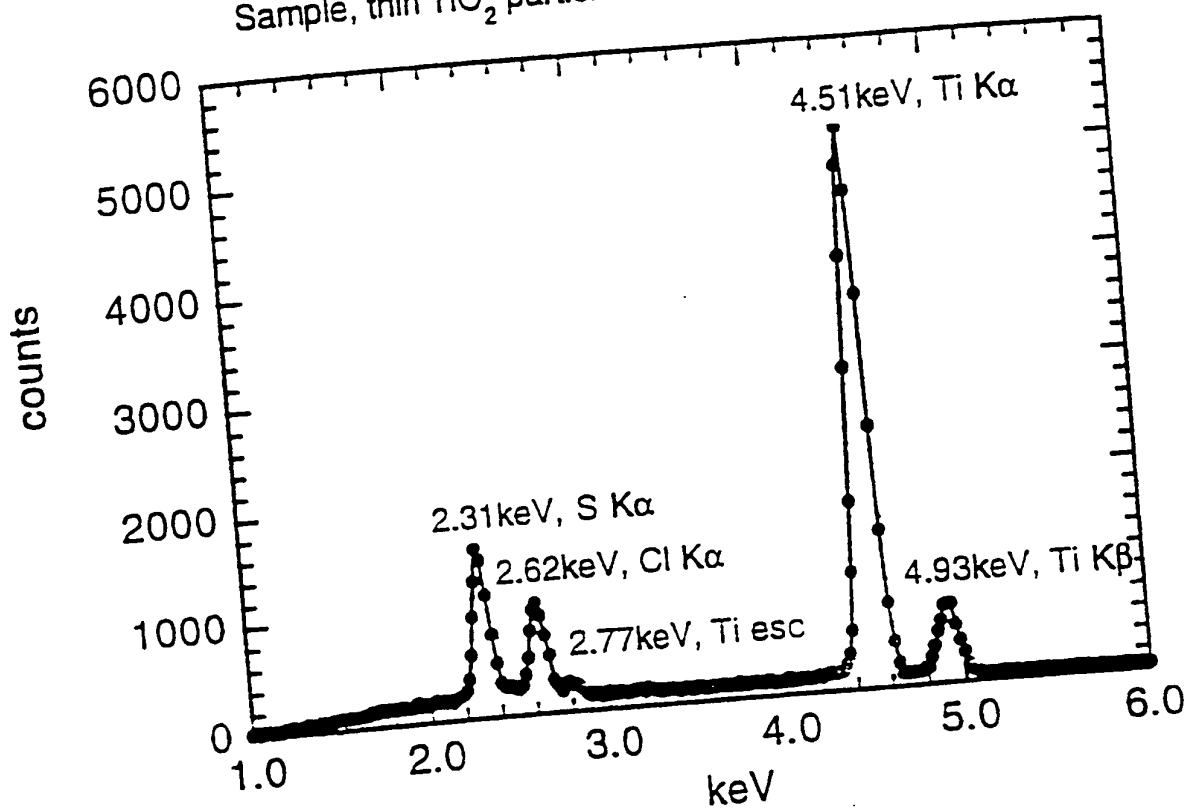


FIG.1

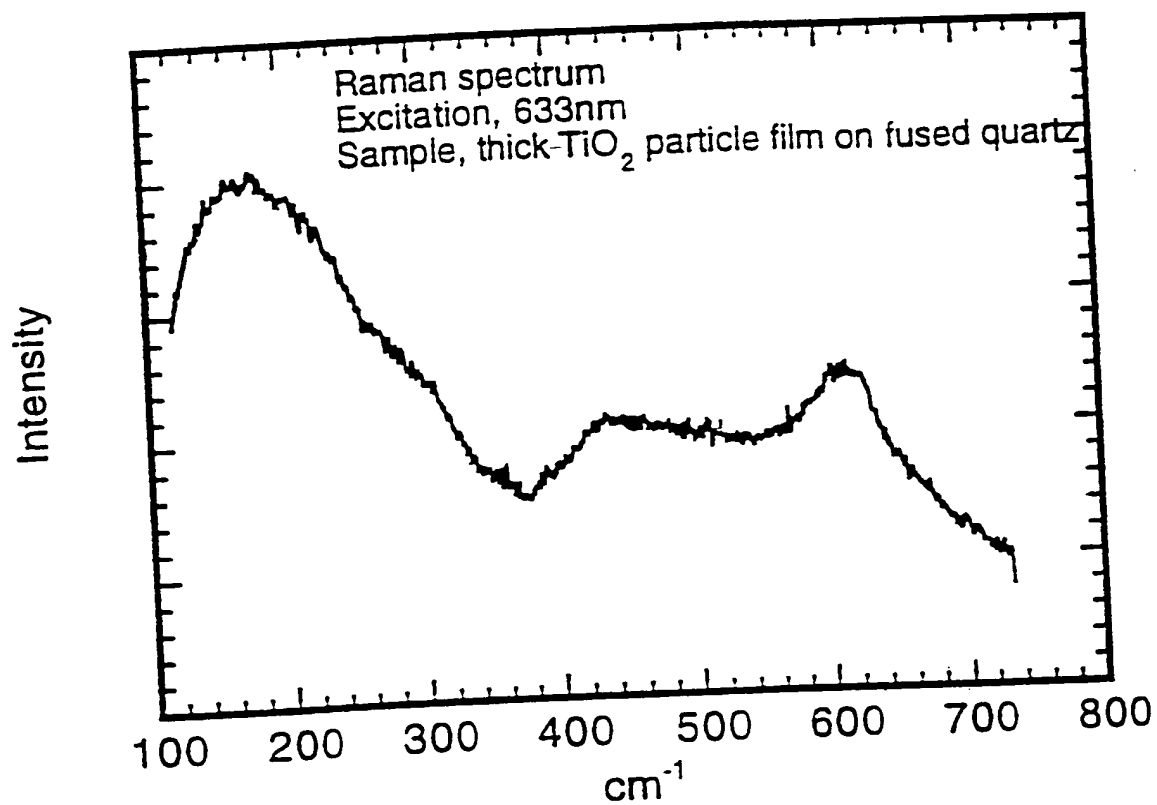


FIG.2

T06040 12364600

Absorbance

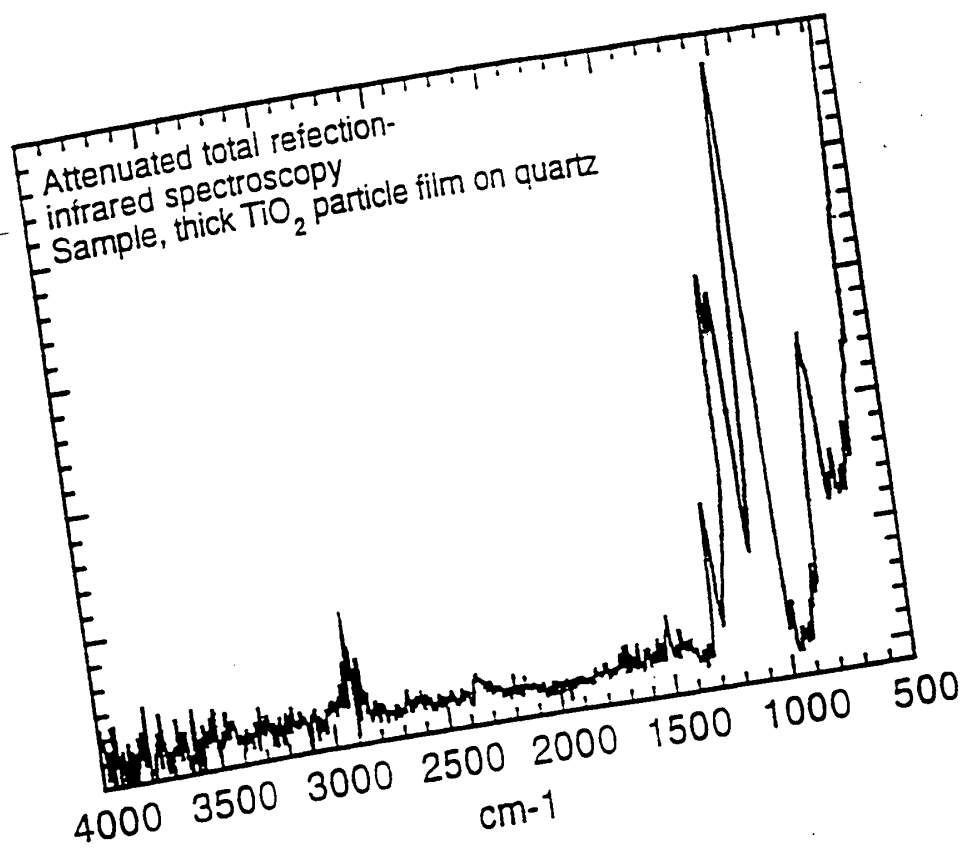


FIG.3

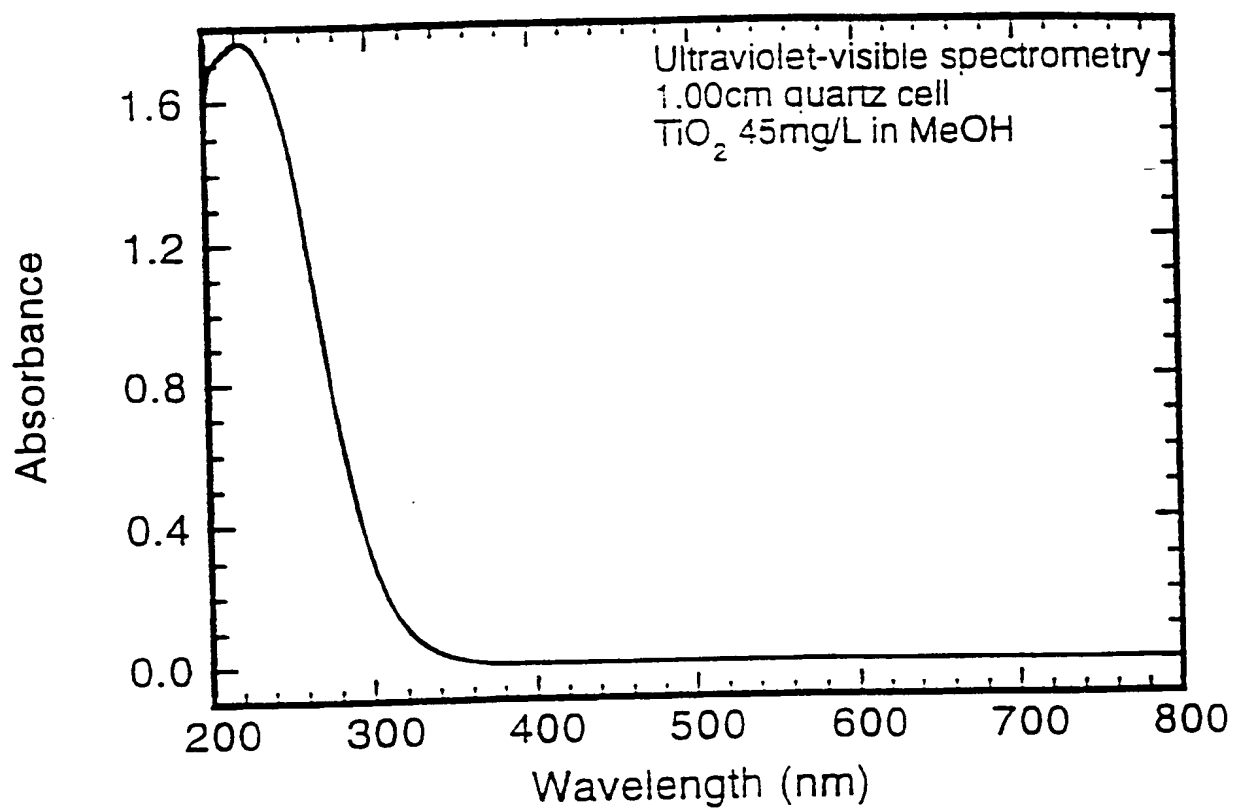


FIG.4

09743621.040901

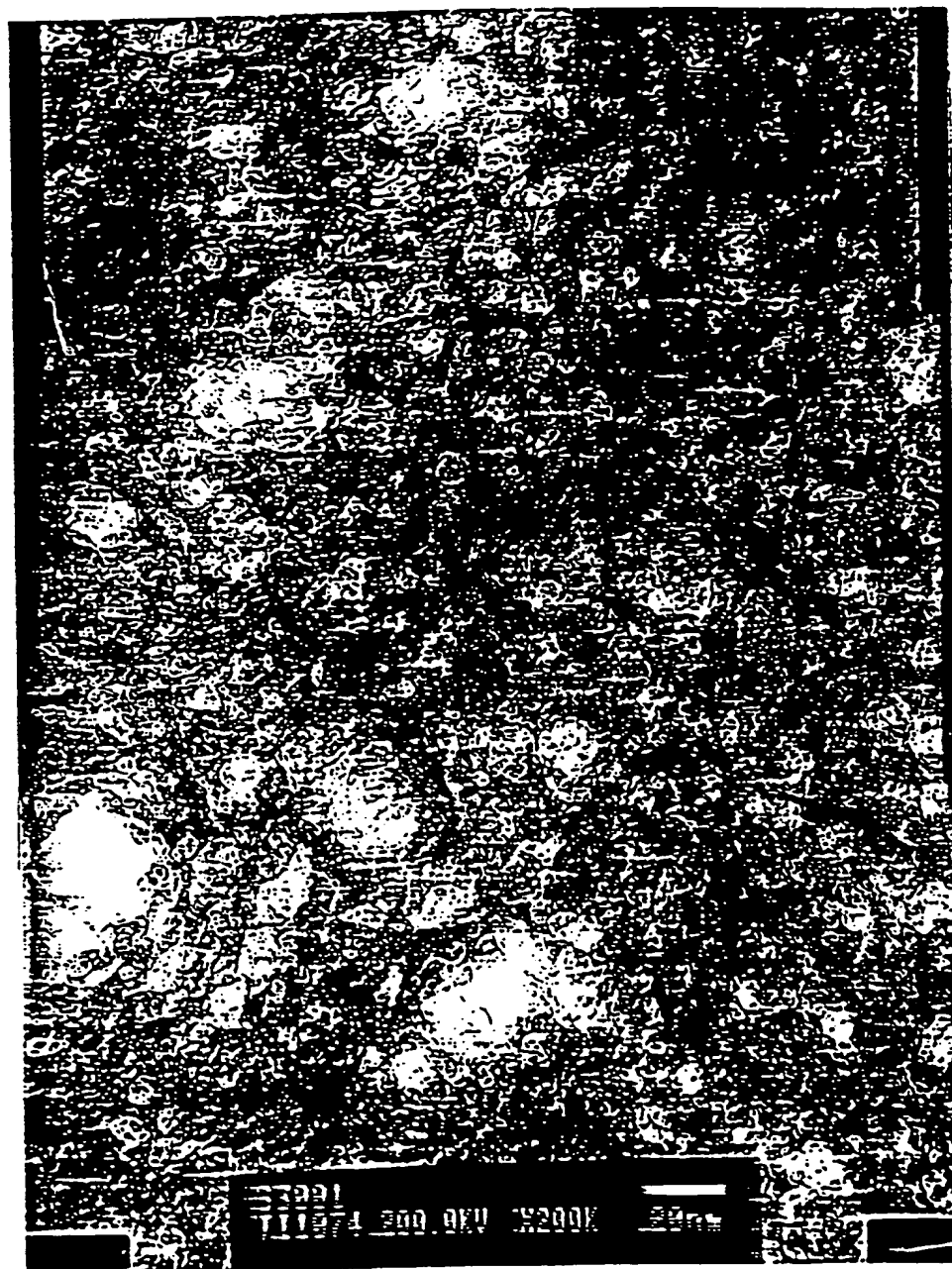


FIG.5

09743621 040901  
T06040 T294460

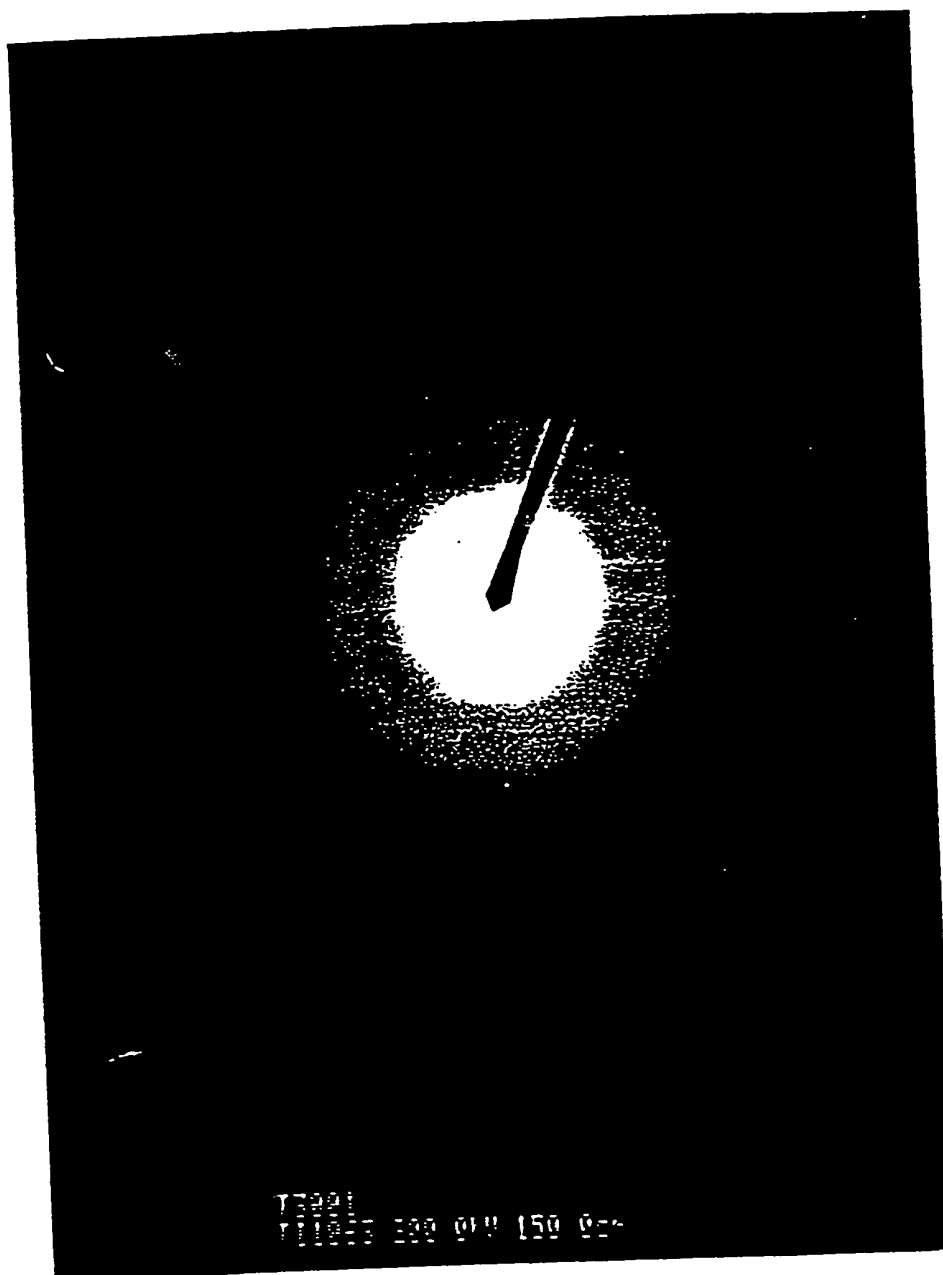


FIG.6

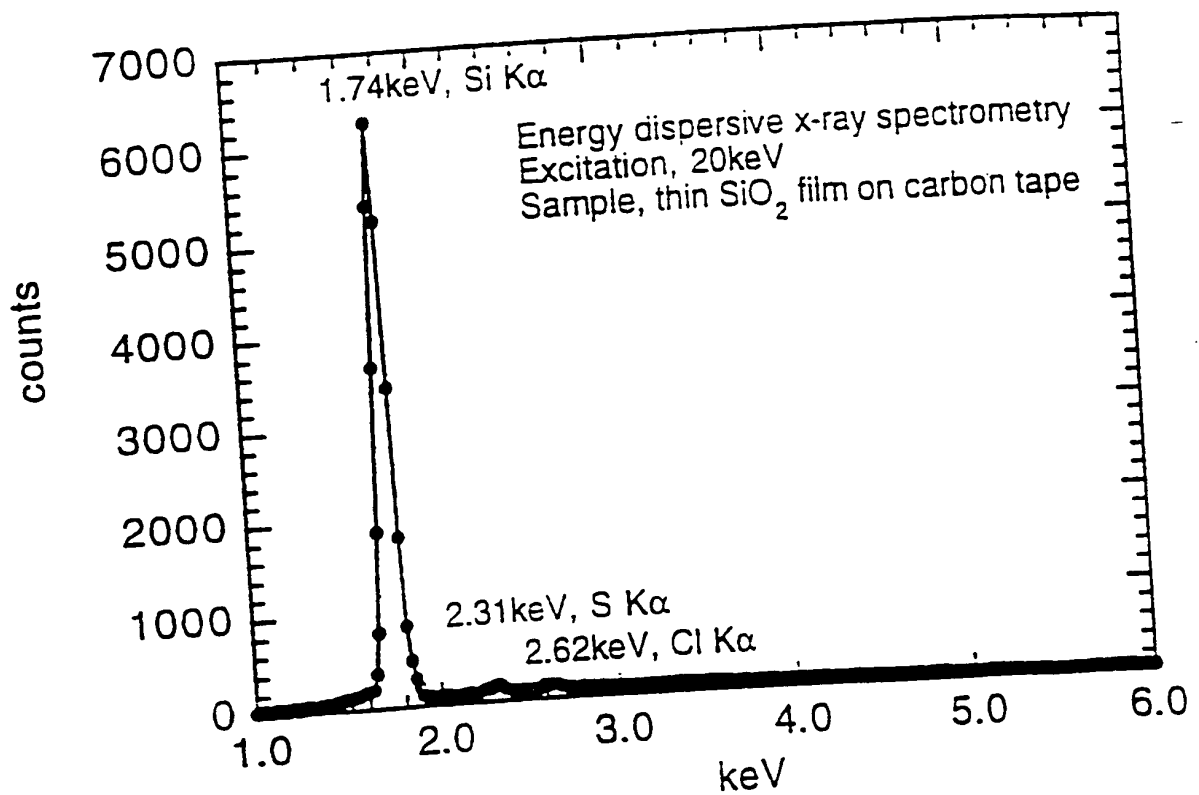


FIG.7

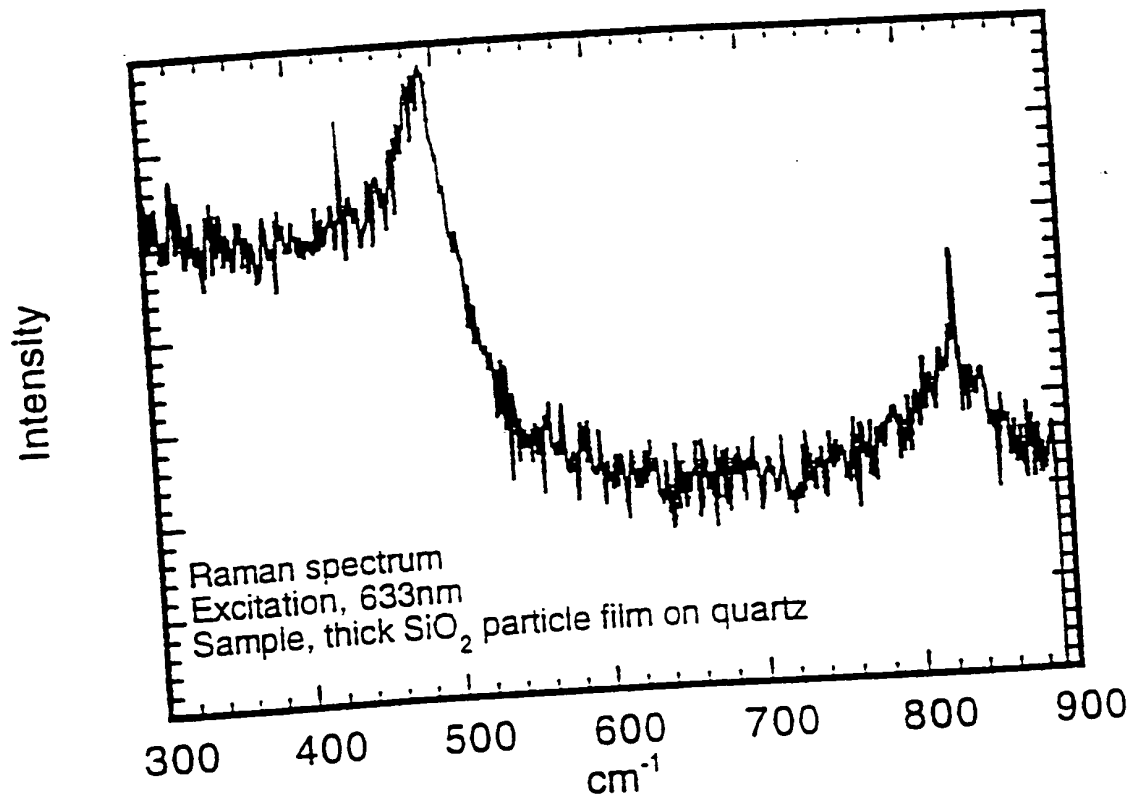


FIG.8



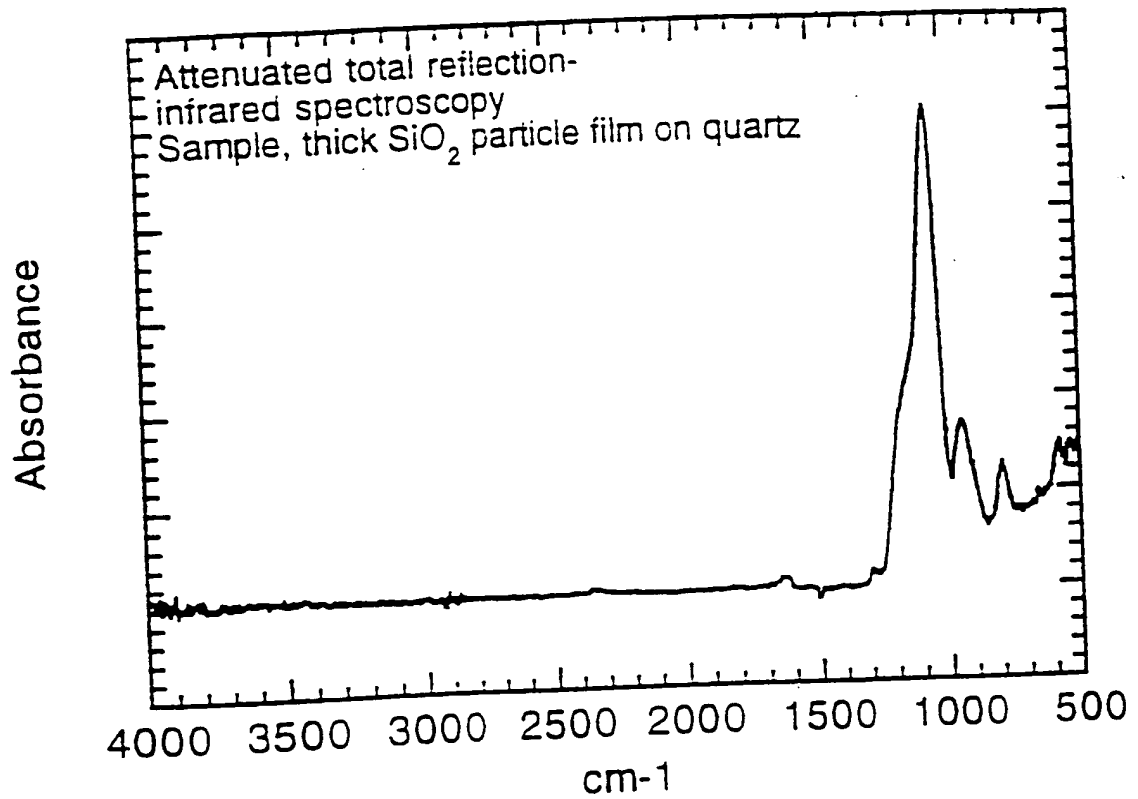


FIG.9



T06040" T2954/50



FIG.11

09743621 040901  
T06040" T29EH260

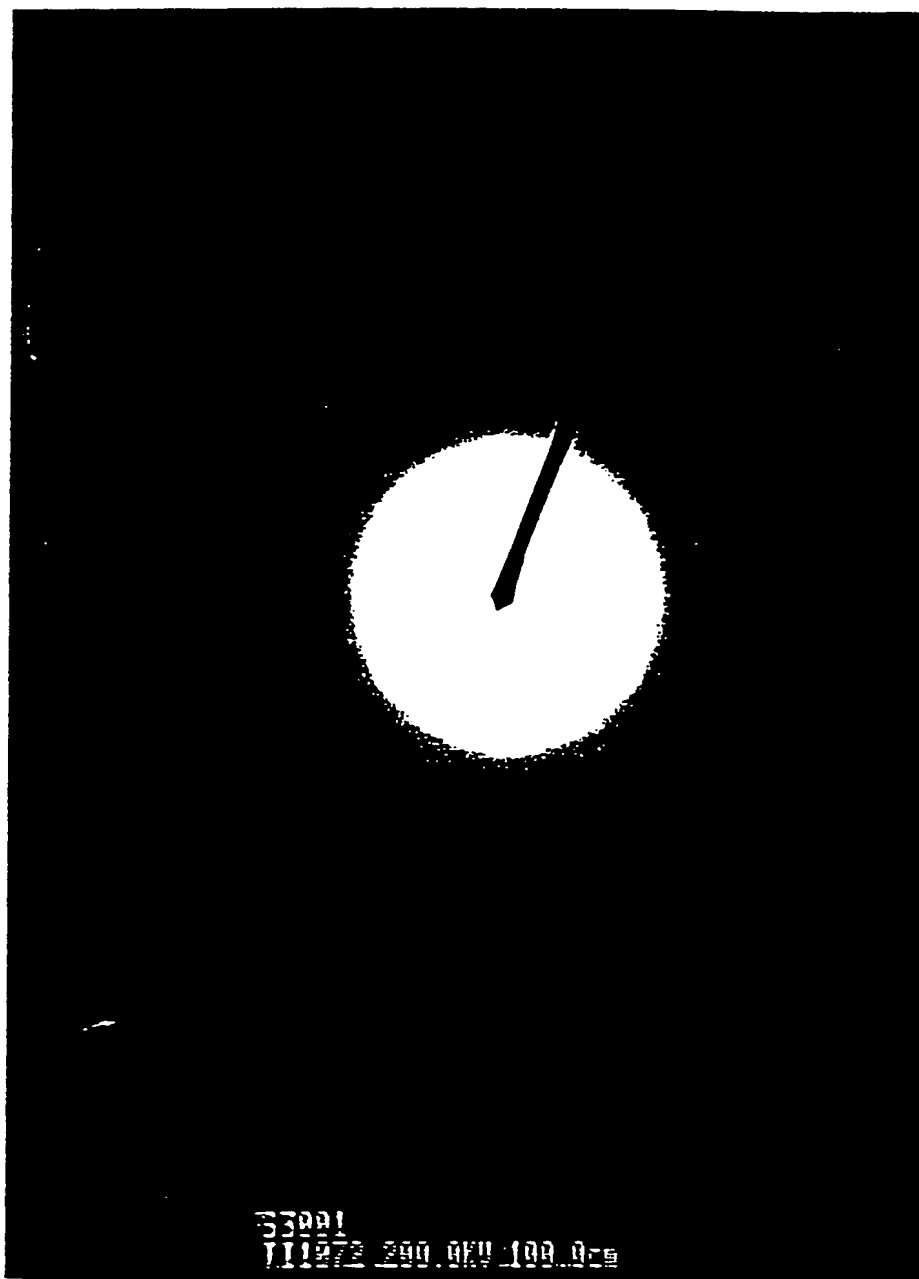


FIG.12

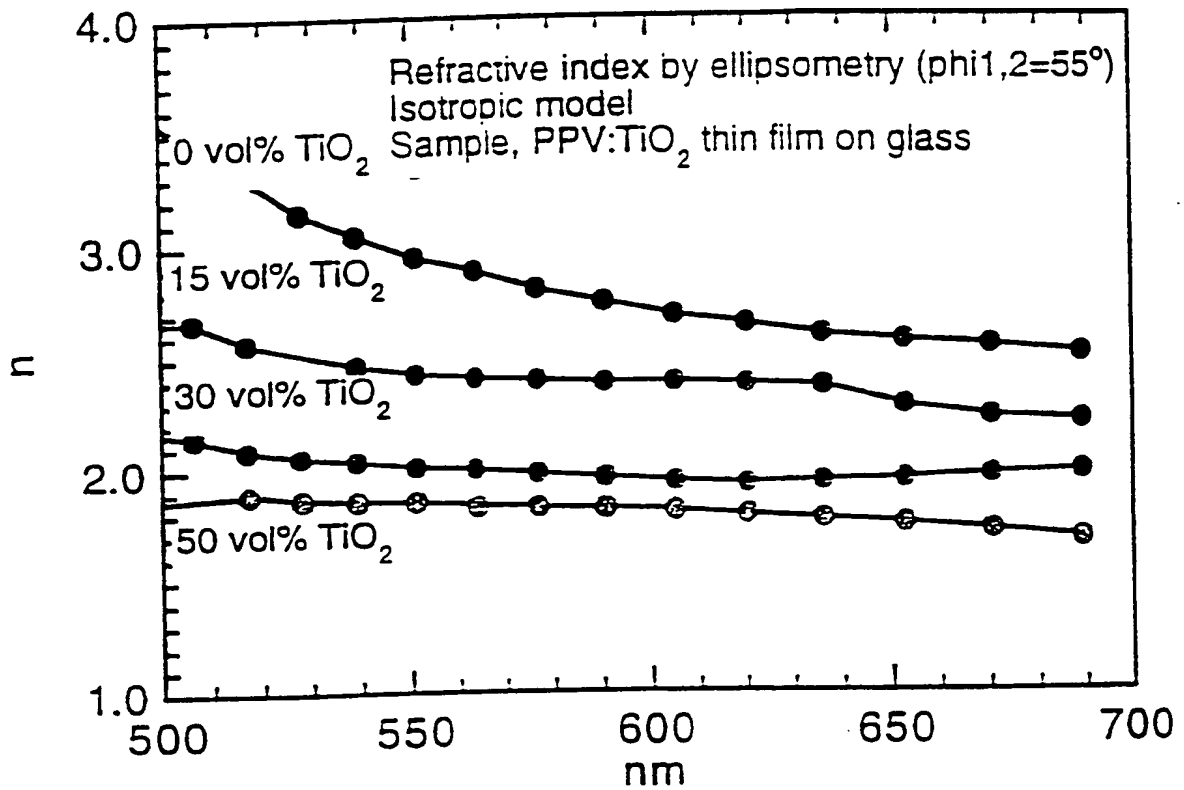
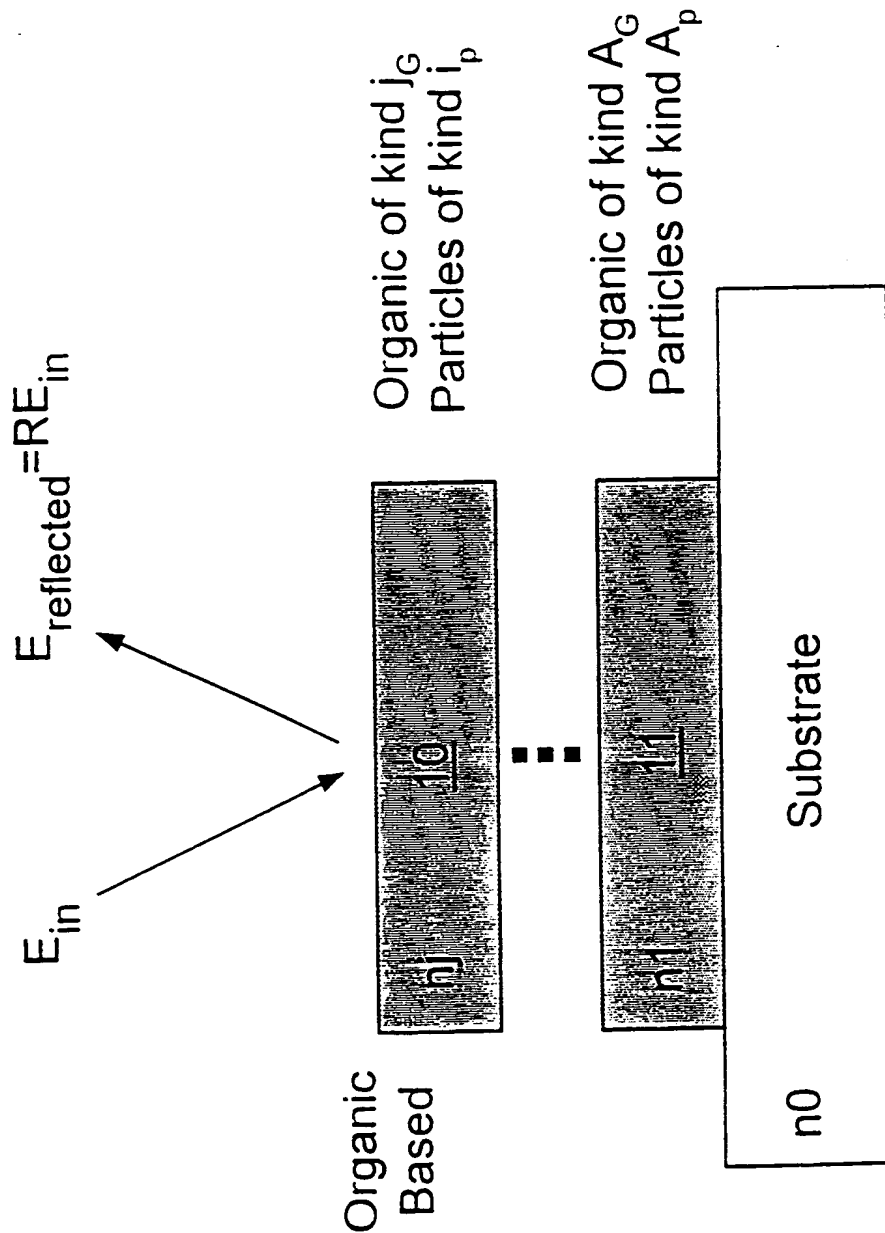


FIG.13

Distributed Brag Reflector



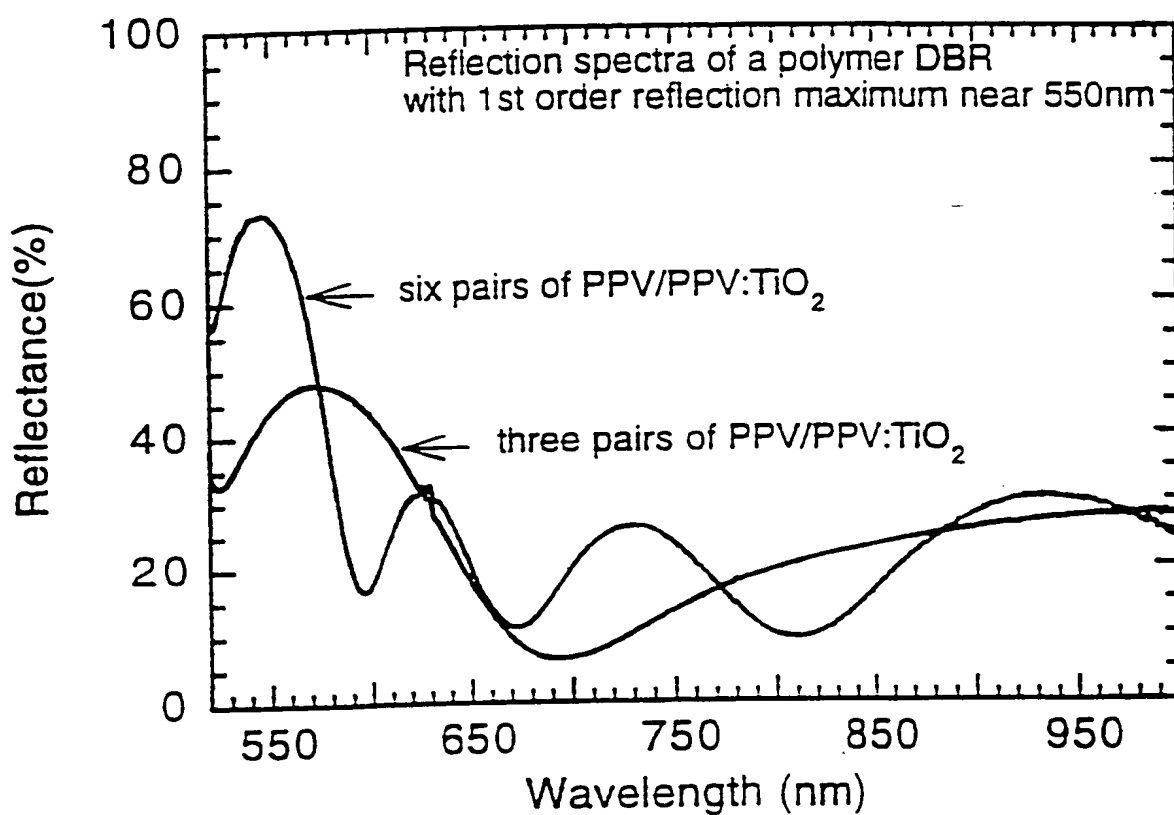


FIG.15

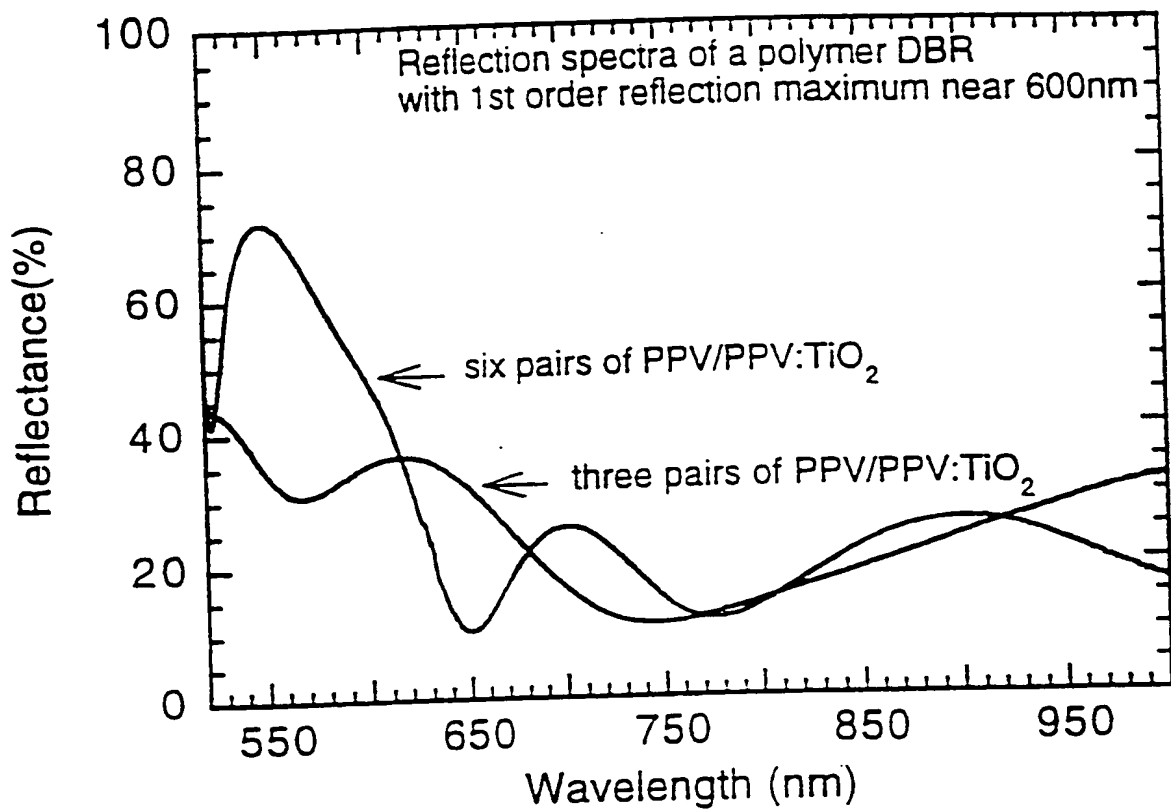


FIG.16



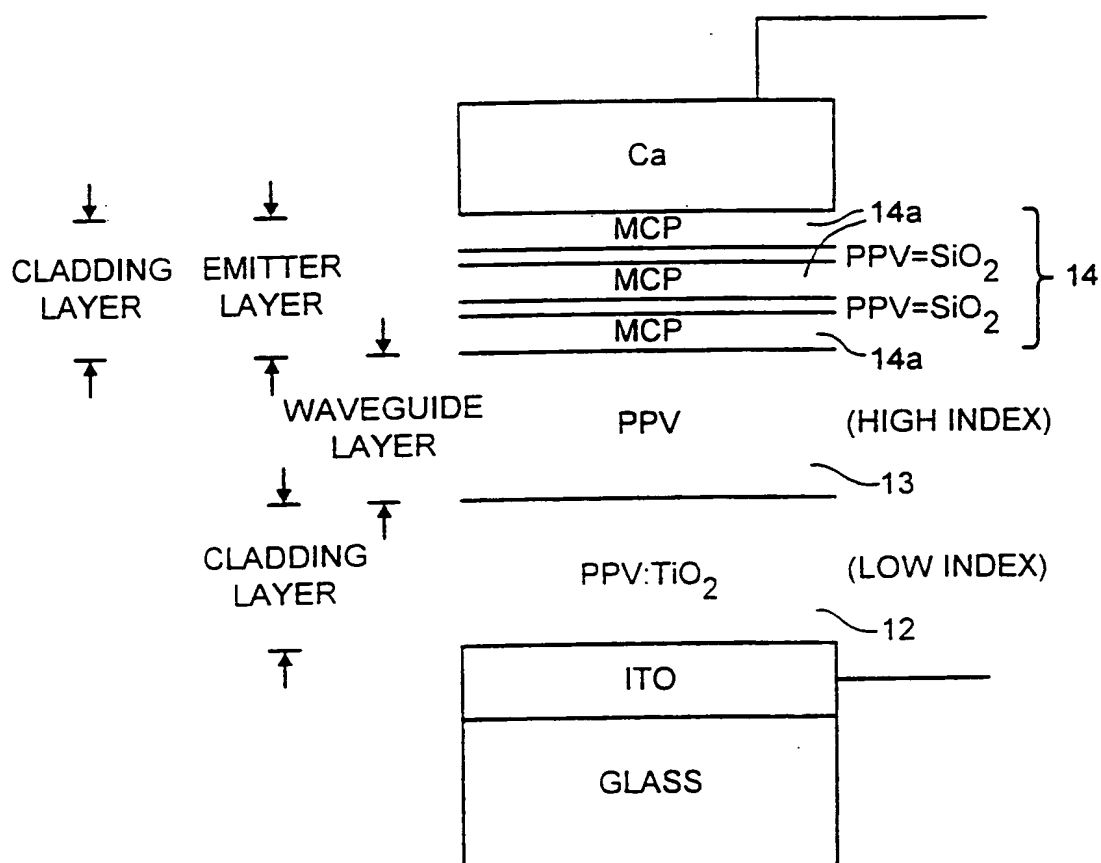


FIG. 17a

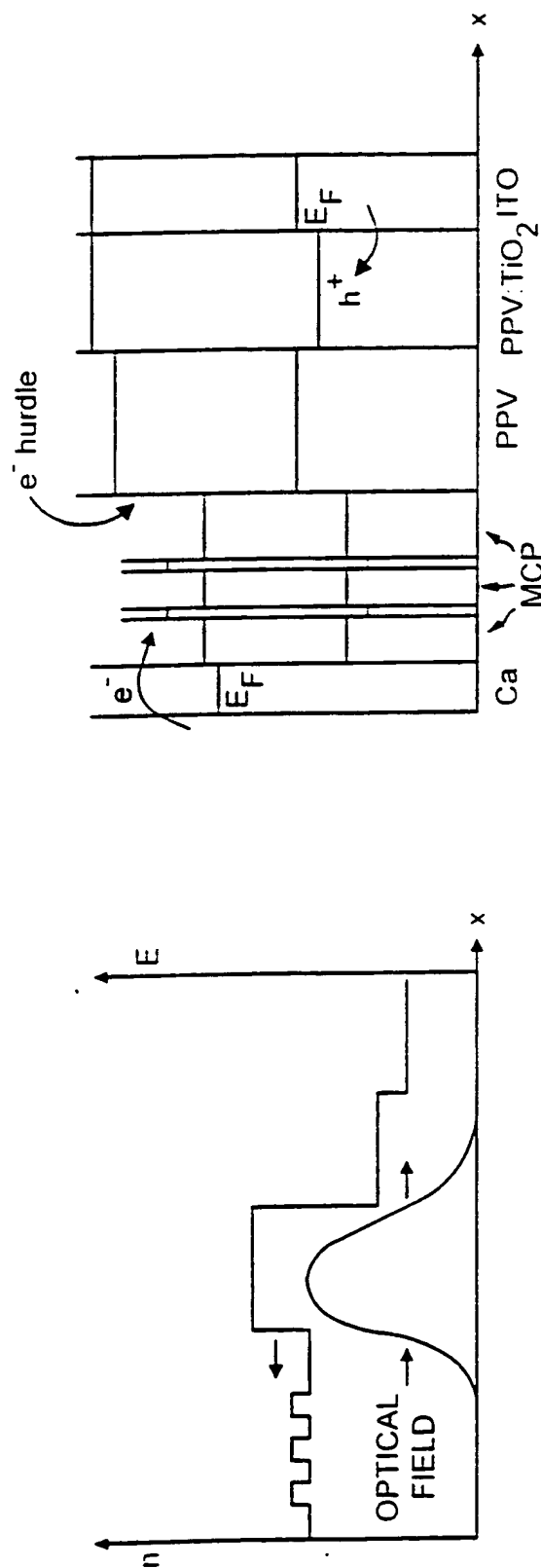


FIG. 17b

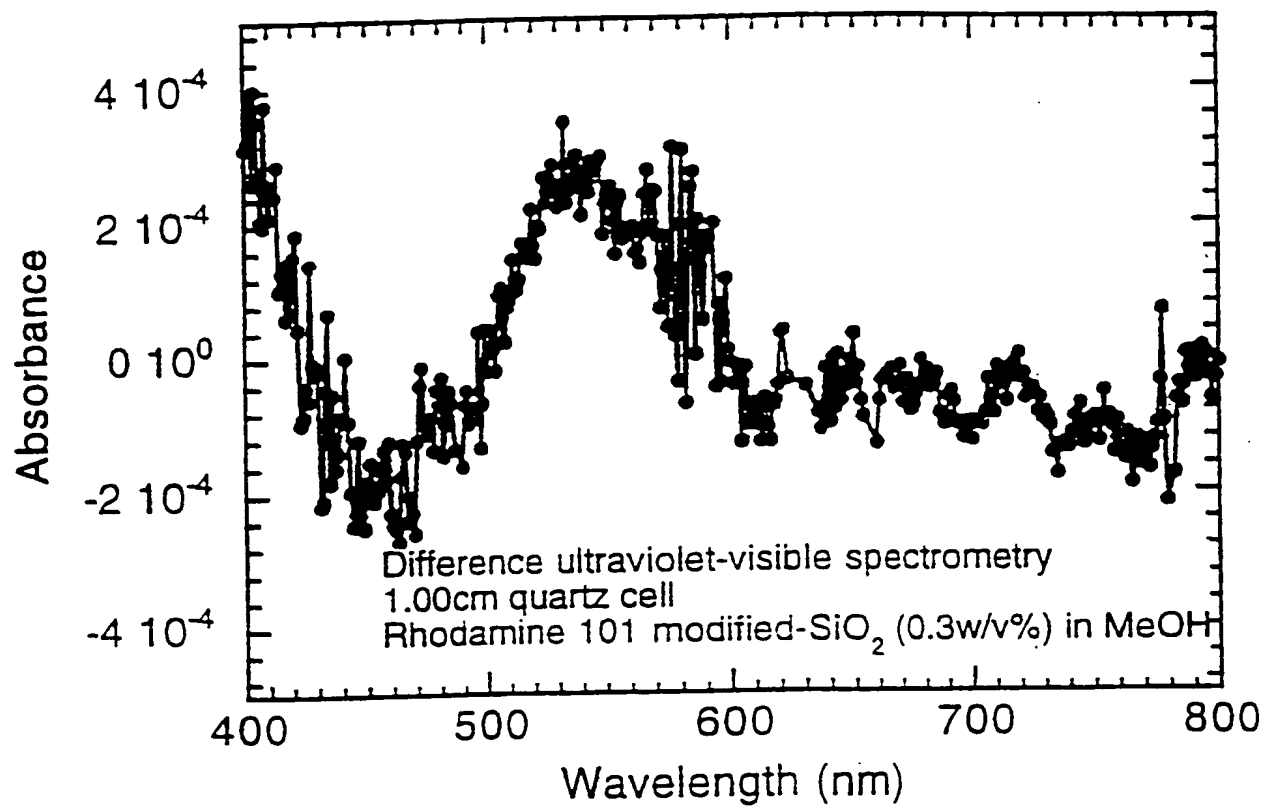
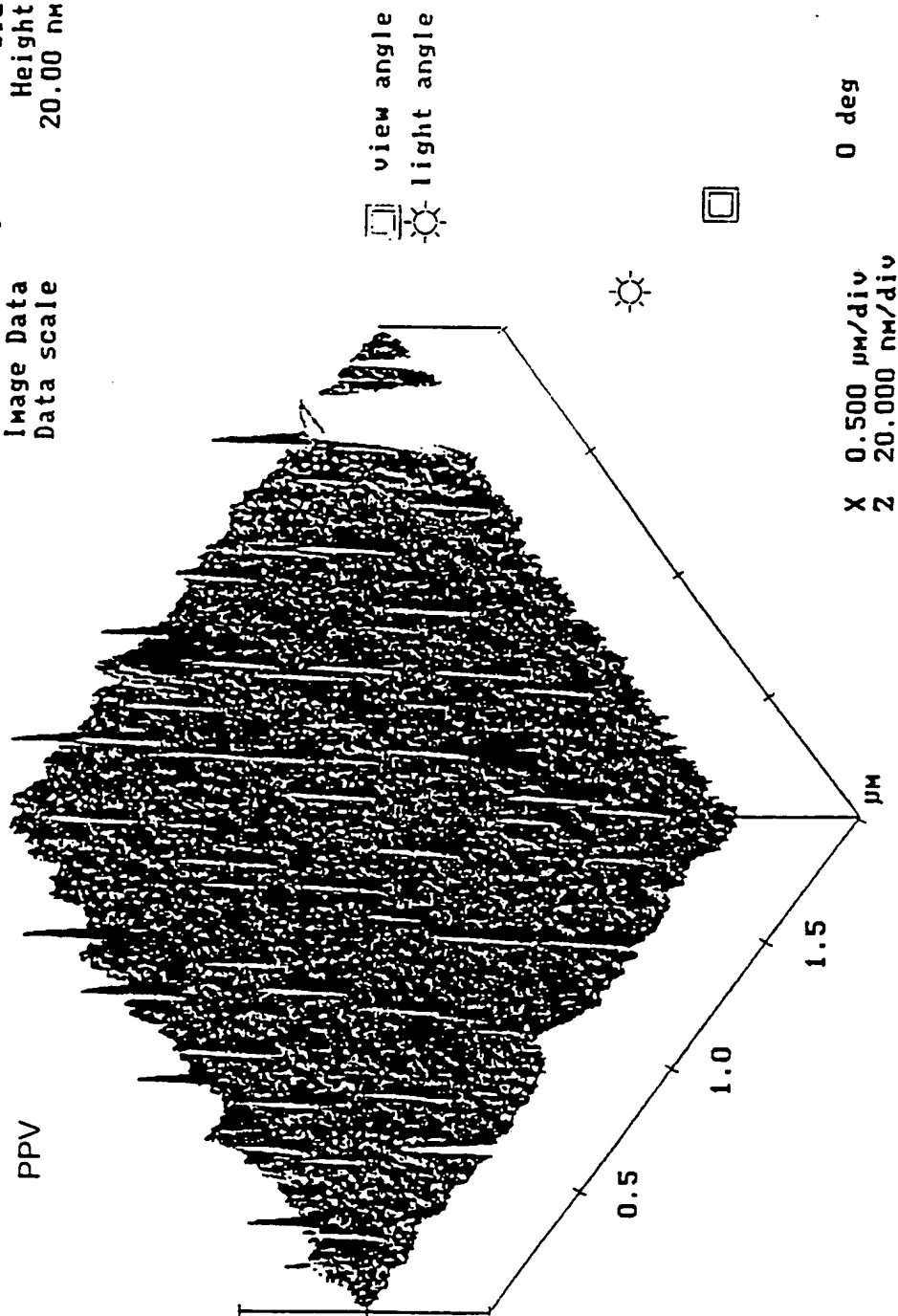


FIG.18

Digital Instruments Nanoscope  
 Scan size 2.000  $\mu\text{m}$   
 Scan rate 1.001 Hz  
 Number of samples 512  
 Image Data Height  
 Data scale 20.00 nm

FIG. 19a

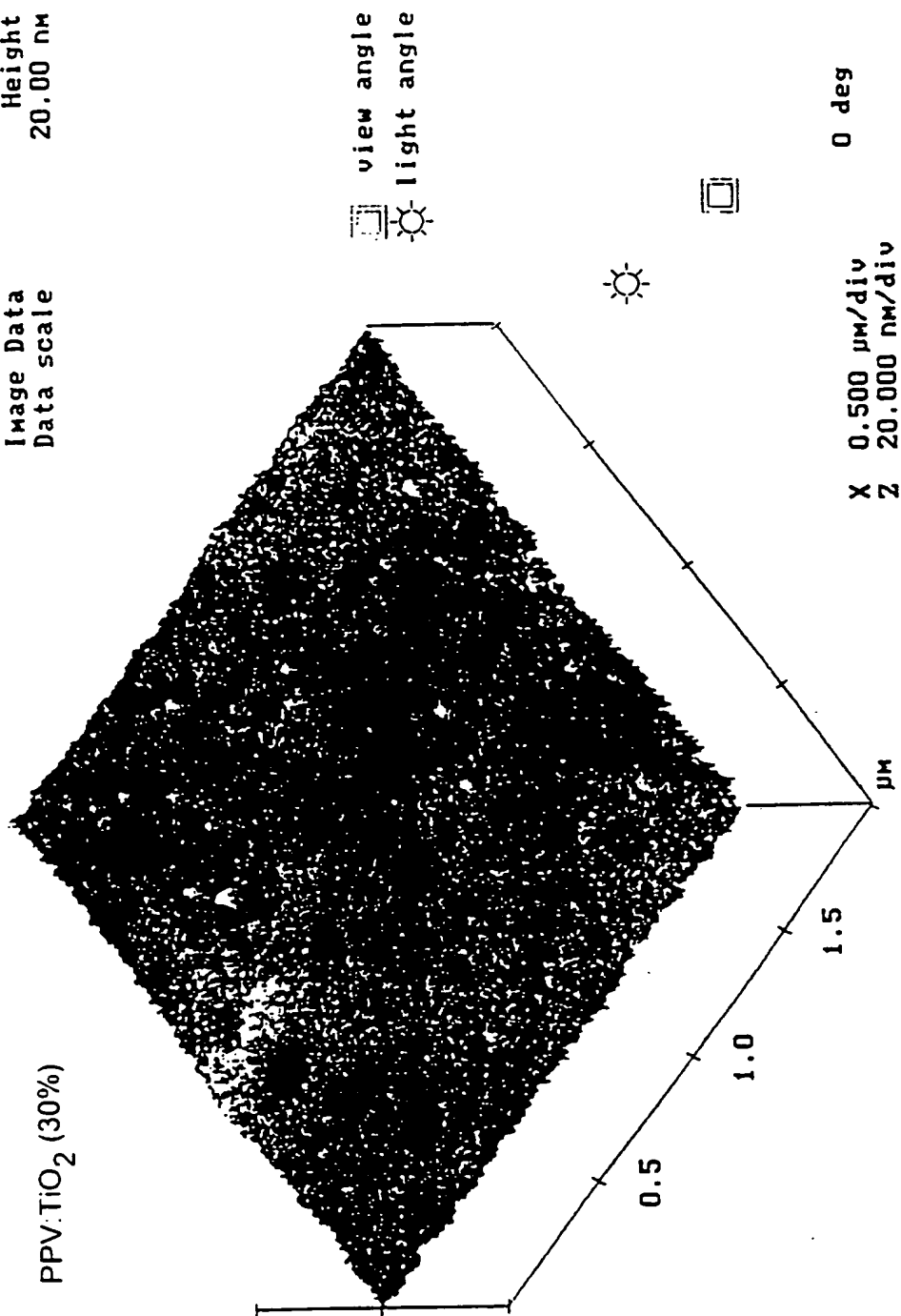
PPV



Digital Instruments Nanoscope  
 Scan size 2.000  $\mu\text{m}$   
 Scan rate 1.001 Hz  
 Number of samples 512  
 Image Data Height  
 Data scale 20.00 nm

FIG. 19b

PPV:TiO<sub>2</sub> (30%)



30-tppv.010

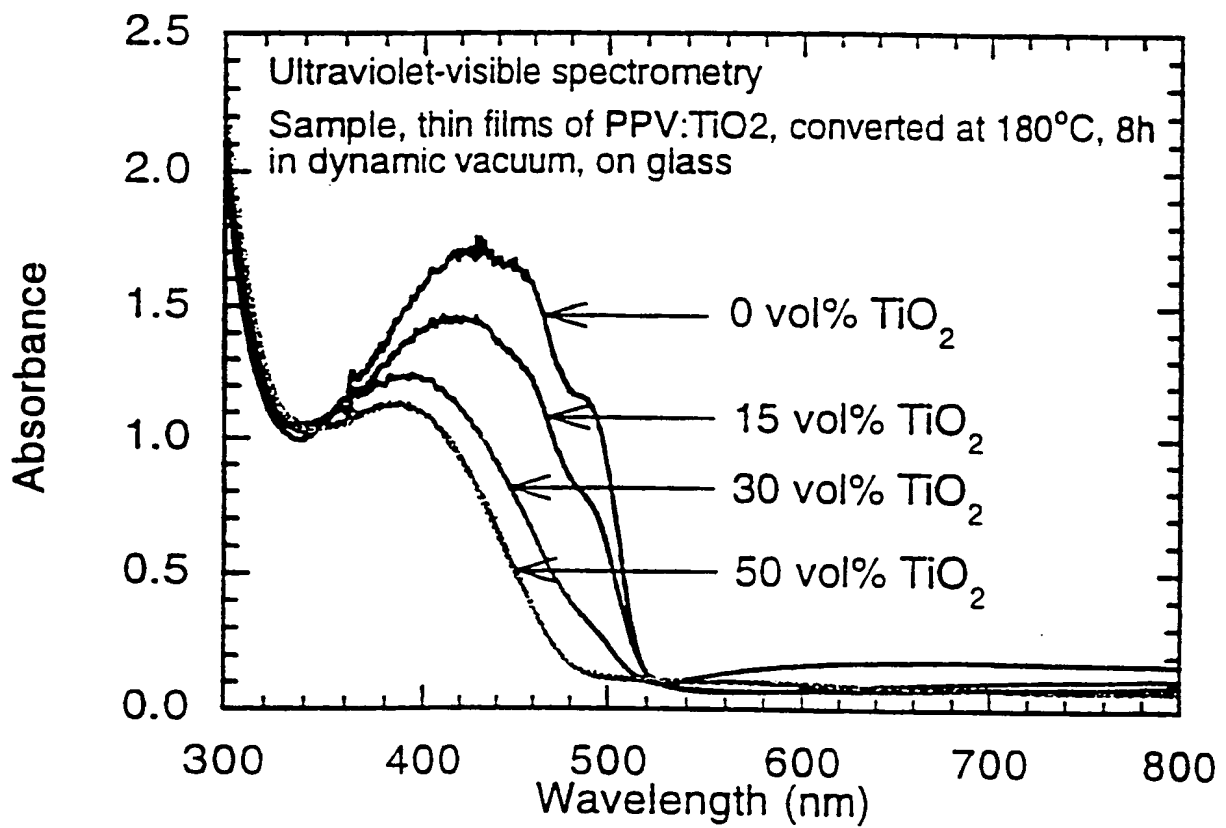


FIG.20